ELSEVIER

Respiration Physiology 101 (1995) 335–336

RESPIRATION PHYSIOLOGY

Author Index

Adnot, S., B. Raffestin and S. Eddahibi, NO in the lung, 109
Aida, A., see Nakano, T., 207
Altpeter, E., see Hoppeler, H., 189
Anderson, J.W., see Sant'Ambrogio, F.B., 31

Berger, P.J., see Wilkinson, M.H., 321
Bisgard, G.E., see Hedrick, M.S., 129
Bisgard, G.E., see Pizarro, J., 11
Blanch, N., see Wilkinson, M.H., 321
Bonham, A.C., Neurotransmitters in the CNS control of breathing, 219
Bowman, L., see Miles, P.R., 99
Bradford, A., see Curran, A.K., 23
Brodecky, V., see Wilkinson, M.H., 321
Bruce, E.N., see Dhawale, P., 267
Burleson, M.L. and W.K. Milsom, Cardio-ventilatory control in rainbow trout: II. Reflex effects of exogenous neurochemicals, 289

Chang, C.H., see Haxhiu, M.A., 257
Cherniack, N.S., see Haxhiu, M.A., 257
Corfield, D.R., M.J. Morrell and A. Guz, The nature of breathing during hypocapnia in awake man, 145
Curran, A.K., K.D. O'Halloran and A. Bradford, Effects of superior laryngeal nerve section on ventilation in neonatal guinea-pigs, 23

De Backer, W., see Verbraecken, J., 279
De Cock, W., see Verbraecken, J., 279
Dhawale, P. and E.N. Bruce, Estimation of hypoxic ventilatory dynamics using pseudorandom inputs, 267
Dreshaj, I.A., see Haxhiu, M.A., 257
Duron, B., see Rose, D., 59
Duron, B., see Wallois, F., 239

Eddahibi, S., see Adnot, S., 109
Edwards, L.J., see Flume, P.A., 41
Eldridge, F.L., see Flume, P.A., 41
Erokwu, B., see Haxhiu, M.A., 257

Faltus, R.E., see Moss, I.R., 161
Fandrey, J., Hypoxia-inducible gene expression, 1
Flume, P.A., F.L. Eldridge, L.J. Edwards and L.M. Houser, Relief of distress of breathholding: separate effects of expiration and inspiration, 41
Frazer, D.G., see Miles, P.R., 99
Fukushima, T., see Yamaya, M., 199

Guz, A., see Corfield, D.R., 145

Haxhiu, M.A., C.H. Chang, I.A. Dreshaj, B. Erokwu, N.R. Prabhakar and N.S. Cherniack, Nitric oxide and ventilatory response to hypoxia, 257
Hedrick, M.S., M.L. Ryan and G.E. Bisgard, Recurrent laryngeal nerve activation by α_2 adrenergic agonists in goats, 129
Hedrick, M.S., see Pizarro, J., 11
Hida, W., S. Okabe, H. Miki, Y. Kikuchi, H. Kurosawa, T. Takishima and K. Shirato, Submental stimulation and supraglottic resistance during mouth breathing, 79
Hokanson, J., see Hoppeler, H., 189
Hokanson, J., see Turner, D.L., 183
Hoppeler, H., E. Altpeter, M. Wagner, D.L. Turner, J. Hokanson, M. König, V.P. Stalder-Navarro and E.R. Weibel, Cold acclimation and endurance training in guinea pigs: changes in lung, muscle and brown fat tissue, 189
Hoppeler, H., see Turner, D.L., 183
Houser, L.M., see Flume, P.A., 41
Howard, L.S., see Mou, X.B., 139
Hughson, R.L., Coupling of ventilation and gas exchange during transitions in work rate by humans, 87

Inman, J.D.G., see Moss, I.R., 161

Kawakami, Y., see Nakano, T., 207
Keith, I.M., see Pizarro, J., 11
Khater-Boidin, J., see Rose, D., 59
Kikuchi, Y., see Hida, W., 79
König, M., see Hoppeler, H., 189
Kuna, S.T., see Sant'Ambrogio, F.B., 31
Kurosawa, H., see Hida, W., 79

Laferrière, A., see Moss, I.R., 161

Macron, J.-M., see Wallois, F., 239
Marchione, T., see Pianosi, P., 71

Miki, H., see Hida, W., 79
Miles, P.R., L. Bowman and D.G. Frazer, Properties of lavage material from excised lungs ventilated at different temperatures, 99
Milsom, W.K. and W.D. Reid, Pulmonary mechanics of hibernating squirrels (*Spermophilus lateralis*), 311
Milsom, W.K., see Burleson, M.L., 289
Milsom, W.K., see Reid, W.D., 301
Miyamoto, K., see Nakano, T., 207
Morrell, M.J., see Corfield, D.R., 145
Moss, I.R., R.E. Faltus, J.D.G. Inman and A. Laferrière, Cardiorespiratory and sleep-wake behavior in developing swine: κ-opioid influence, 161
Mou, X.B., L.S. Howard and P.A. Robbins, A protocol for determining the shape of the ventilatory response to hypoxia in humans, 139

Nail, B.S., see Yuan, L., 127
Nakano, T., K. Miyamoto, A. Aida, S. Saito, M. Nishimura and Y. Kawakami, Effects of platelet depletion on PMA-induced acute lung injury in awake sheep, 207
Ng, A., see Reid, W.D., 301
Nishimura, M., see Nakano, T., 207

O'Halloran, K.D., see Curran, A.K., 23
Ohrui, T., see Yamaya, M., 199
Okabe, S., see Hida, W., 79

Pianosi, P. and T. Marchione, Hypoxic response is inversely related to degree of exercise hyperventilation, 71
Pickett, C.K., see Tatsumi, K., 47
Pizarro, J., M.L. Ryan, M.S. Hedrick, D.H. Xue, I.M. Keith and G.E. Bisgard, Intracarotid Substance P infusion inhibits ventilation in the goat, 11
Poole, D.C., see Sexton, W.L., 171
Prabhakar, N.R., see Haxhiu, M.A., 257

Raffestin, B., see Adnot, S., 109
Reid, W.D., A. Ng, R.K. Wilton and W.K. Milsom, Characteristics of diaphragm muscle fibre types in hibernating squirrels, 301
Reid, W.D., see Milsom, W.K., 311
Robbins, P.A., see Mou, X.B., 139
Rose, D., J. Khater-Boidin, P. Toussaint and B. Duron, Central effects of 5-HT on respiratory and hypoglossal activities in the adult cat, 59
Ryan, J.W. and T.G. Waldrop, Erratum to "Hypoxia sensitive neurons in the caudal hypothalamus project to the periaqueductal gray". [Respir. Physiol. 100 (1995) 185–194], 333
Ryan, M.L., see Hedrick, M.S., 129
Ryan, M.L., see Pizarro, J., 11

Saito, S., see Nakano, T., 207
Sant'Ambrogio, F.B., J.W. Anderson, S.T. Kuna and G. Sant'Ambrogio, Effect of changes in airway surface liquid on laryngeal receptors and muscles, 31
Sant'Ambrogio, G., see Sant'Ambrogio, F.B., 31
Sasaki, H., see Yamaya, M., 199
Sekizawa, K., see Yamaya, M., 199
Sexton, W.L. and D.C. Poole, Costal diaphragm blood flow heterogeneity at rest and during exercise, 171
Shirato, K., see Hida, W., 79
Shunichi, , see Nakano, T., 207
Stalder-Navarro, V.P., see Hoppeler, H., 189
Szereda-Przestaszewska, M. and B. Wypych, Effects of vagal and laryngeal afferents on apnoeic response to serotonin in cats, 231

Takishima, T., see Hida, W., 79
Tatsumi, K., C.K. Pickett and J.V. Weil, Decreased carotid body hypoxic sensitivity in chronic hypoxia: role of dopamine, 47
Toussaint, P., see Rose, D., 59
Turner, D.L., H. Hoppeler, J. Hokanson and E.R. Weibel, Cold acclimation and endurance training in guinea pigs: Changes in daily and maximal metabolism, 183
Turner, D.L., see Hoppeler, H., 189

Van de Heyning, P., see Verbraecken, J., 279
Verbraecken, J., W. De Backer, M. Willemen, W. De Cock, W. Wittesaele and P. Van de Heyning, Chronic CO_2 drive in patients with obstructive sleep apnea and effect of CPAP, 279

Wagner, M., see Hoppeler, H., 189
Waldrop, T.G., see Ryan, J.W., 333
Wallois, F., J.-M. Macron and B. Duron, Activities of vagal receptors in the different phases of sneeze in cats, 239
Weibel, E.R., see Hoppeler, H., 189
Weibel, E.R., see Turner, D.L., 183
Weil, J.V., see Tatsumi, K., 47
Wilkinson, M.H., P.J. Berger, N. Blanch and V. Brodecky, Effect of venous oxygenation on arterial desaturation rate during repetitive apneas in lambs, 321
Willemen, M., see Verbraecken, J., 279
Wilton, R.K., see Reid, W.D., 301
Wittesaele, W., see Verbraecken, J., 279
Wypych, B., see Szereda-Przestaszewska, M., 231

Xue, D.H., see Pizarro, J., 11

Yamaya, M., T. Fukushima, K. Sekizawa, T. Ohrui and H. Sasaki, Cytoplasmic motility reflects phagocytic activity in alveolar macrophages from dog lungs, 199
Yuan, L. and B.S. Nail, A differential bronchomotor response to cooling and drying the upper airway, 127

ELSEVIER

Respiration Physiology 101 (1995) 337–339

RESPIRATION PHYSIOLOGY

Subject Index

Afferent nerves
airways, cold air, 121, sneeze, 239
Airways
bronchoconstrictor reflex, cold air, 121
pressure-responsive receptors, 31
smooth muscle, NO, 109
Apnea
central, α_2 agonists, 129
serotonin, laryngeal afferents, 231

Blood flow
pulmonary, NO, 109
respiratory muscle, 171
Breath-holding
respiratory distress, 41
Bronchoconstriction
cold air, 121

Cardiovascular system
κ-opioid antagonism, 161
Carotid body
chronic hypoxia, dopamine, 47
O_2 sensitivity, exercise, 71
substance P, 11
Carotid sinus nerve
chronic hypoxia, dopamine, 47
Chemoreceptors
branchial, O_2, 289
peripheral, exercise, 71
Cold
acclimation, maximal O_2 uptake, 183, 189
airways, superior laryngeal nerve, 23
Compliance
hibernating squirrel, 311
Control of breathing
bronchoconstrictor reflex, cold air, 121
carotid body, substance P, 11
central hypoxia, 257
central neurotransmitters, 219
chemoresponses, superior nerve section, 23
chronic hypoxia, dopamine, 47
exercise, O_2 sensitivity, 71
hypercapnic ventilatory response, sleep apnea, 279
hypoxia, transient ventilatory response, 267
hypoxic ventilatory response, 139
laryngeal afferents, serotonin, 231
O_2 chemoreceptors, branchial (fish), 289
pattern of ventilation, exercise, 87
post-hyperventilation breathing, 145
respiratory arrythmia, α_2 agonists, 129
Cytoskeleton
alveolar macrophages, 199

Development
neonatal guinea pig, airway reflexes, 23
sleep-wake, respiratory muscles, 161
Diffusing capacity
lung, metabolism, 189
Dyspnea
breath-holding, 41

Enzymes
hypoxia-induced formation, 1
Erythropoietin
hypoxia-induced formation, 1
Exercise
muscle blood flow, 171
O_2 sensitivity, 71
pattern of ventilation, 87
training, maximal O_2 uptake, 183, 189

Fish
rainbow trout (*Oncorhynchus mykiss*), 289

Gas exchange
apnea, 321
Gene
regulation, hypoxia, 1

Hibernation
muscle fiber type (squirrel), 301
pulmonary mechanics (squirrel), 311

Hypercapnia
ventilatory response, sleep apnea, 279
Hyperoxia
pattern of ventilation, exercise, 87
Hyperventilation
voluntary vs. mechanical, 145
Hypocapnia
breathing pattern, 145
Hypoxia
κ-opioid antagonism, 161
central mediators, 257
gene expression, 1
isocapnic, biphasic ventilatory response, 139
pattern of ventilation, exercise, 87
pseudorandom binary stimulation, 267
pulmonary vasoconstriction, NO, 109
ventilatory response, dopamine, 47

Injury
lung, platelets, 207

Larynx
receptors, 31

Macrophages
alveolar, cytoplasmic motility, 199
Mammals
cat, 47, 59, 231, 239
dog, 31, 199
goat, 11, 129
guinea pig, 23, 183, 189
human, 71, 145
humans, 41, 79, 87, 139, 279
piglet, 161
rabbit, 121
rat, 99, 171, 257, 267
sheep, 207
squirrel (*Spermophilus lateralis*), 301, 311
Mechanics of breathing
lung volume, compliance, hibernating squirrel, 311
Mediators
5-HT, respiratory muscles, 59
acetylcholine, 289
catecholamines, 289
dopamine, 47
GABA, 219
glutamate, 219
glycine, 219
nitric oxide, CNS hypoxia, 257
NO, 109
serotonin, 231, 289
substance P, 11, 219
Metabolism
average daily, training, cold, 183
exercise, cold acclimation, 189
Methods
hypoxic ventilatory response, 267
Model
arterial desaturation, apnea, 321
Muscle
fiber type, hibernators, 301
respiratory, diaphragm, 171
smooth, airways, NO, 109
Muscles
respiratory, 5-HT, 59

Nerve
superior laryngeal, airway reflexes, 23
Nerves
recurrent laryngeal, α_2 agonists, respiratory arrhythmias, 129
Neurochemicals
O_2 chemoreceptors (fish), 289
Neuropeptide
substance P, 11

Oxygen
arterial desaturation, apnea, 321
maximal uptake, training, 183, 189
sensitivity, exercise, 71
sensor, gene expression, 1

Pattern of breathing
apnea, shallow tachypnea, serotonin, 231
arrythmia, α_2 agonists, 129
Pharmacological agents
α_2 agonists (clonidine, guanabenz), 129
8-OH-DPAT, 59
cyanide, 289
DOI, 59
domperidone, 47
haloperidol, 47
norbinaltorphimine, 161
Phorbol myristate acetate
lung injury, platelets, 207
Platelets
lung injury, 207
Pulmonary circulation
NO, 109

Receptors
airways, pressure, 31
central serotonin, respiratory activity, 59
GABA, 219
NMDA, 219

Resistance
supraglottic airways, submental stimulation, 79
Respiratory distress
breath-holding, 41
Respiratory rhythm
neurotransmitters, 219
Respiratory sensation
dyspnea, breathlessness, air hunger, 41

Skeletal muscle
metabolism, 189
Sleep
apnea, obstructive, 279
apnea, obstructive, supraglottic resistance, 79
Sneeze
afferent fibers, 239
Surfactant
pulmonary, composition, 99

Temperature
pulmonary surfactant, 99

Upper airways
laryngeal afferents, 5-HT, apnea, 231
patency, 31
reflexes, superior laryngeal nerve, 23
sneeze reflex, 239
supraglottic, resistance, 79

Vagus nerve
afferents, sneeze, 239
Ventilation
exercise, 87
Volume
lung, hibernating squirrel, 311
Work of breathing
hibernating squirrel, 311